

10/500,334

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	75.45	425.45

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	75.45	425.45

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STRUCTURE FILE UPDATES: 1 JAN 2007 HIGHEST RN 916582-62-2
DICTIONARY FILE UPDATES: 1 JAN 2007 HIGHEST RN 916582-62-2

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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<http://www.cas.org/ONLINE/UG/regprops.html>

=> s 562043-83-8/cn
L9 0 562043-83-8/CN

=> e 562043-83-8/cn

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E2	1	5620 PN: W00118542 TABLE: 3A-1 CLAIMED DNA/CN
E3	0 -->	562043-83-8/CN
E4	2	5620: PN: DE10315031 SEQID: 5620 CLAIMED DNA/CN
E5	1	5620: PN: EP1281758 SEQID: 5651 UNCLAIMED DNA/CN
E6	1	5620: PN: US20010051335 SEQID: 5620 CLAIMED DNA/CN
E7	1	5620: PN: US20020013958 SEQID: 5620 CLAIMED DNA/CN
E8	1	5620: PN: US20020137160 SEQID: 5620 CLAIMED DNA/CN
E9	1	5620: PN: US20020198371 SEQID: 325620 CLAIMED DNA/CN
E10	1	5620: PN: US20030233675 SEQID: 17620 CLAIMED PROTEIN/CN
E11	1	5620: PN: US20040031072 SEQID: 193620 CLAIMED PROTEIN/CN
E12	1	5620: PN: US20040116682 SEQID: 5620 CLAIMED DNA/CN

=> e 562043-83-8/rn

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E7	1	562043-87-2/RN

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E8 1 562043-88-3/RN
E9 1 562043-89-4/RN
E10 1 562043-90-7/RN
E11 1 562043-91-8/RN
E12 1 562043-92-9/RN

=> e 562043-82-7/rn

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L11 1 562043-83-8/RN

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.40	430.85

FILE 'CAPLUS' ENTERED AT 14:01:20 ON 02 JAN 2007
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FILE COVERS 1907 - 2 Jan 2007 VOL 146 ISS 2
FILE LAST UPDATED: 1 Jan 2007 (20070101/ED)

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=> s l10

L12 23 L10

=> s l11

L13 3 L11

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10/500,334

=> s 112 or 113
L14 23 L12 OR L13

=> d bib abs hitstr 114

L14 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:1060114 CAPLUS
DN 145:403515
TI Skin-lightening cosmetics containing serine protease inhibitors of plant origin and melanin formation inhibitors
IN Tanaka, Hiroshi
PA Narisu Cosmetic Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 11pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

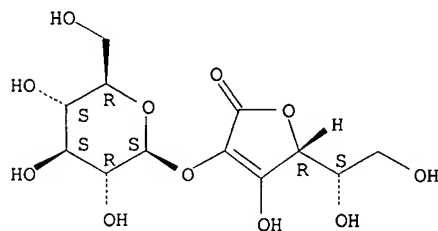
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006273809	A	20061012	JP 2005-99907	20050330
PRAI	JP 2005-99907		20050330		

AB The serine protease inhibitors, especially, against trypsin, inhibit uptake of melanosomes by keratinocytes to prevent diffusion of melanins in stratum corneum and show skin-lightening effect in combination with melanin formation inhibitors. Thus, application of a cream containing Luffa aegyptiaca extract and ascorbic acid glucoside to female volunteers significantly lightened skin color.

IT 562043-82-7
RL: BSU (Biological study, unclassified); COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(skin-lightening cosmetics containing serine protease inhibitors of plant origin, especially against trypsin, and melanin formation inhibitors)

RN 562043-82-7 CAPLUS
CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d bib abs hitstr 114 2-23

L14 ANSWER 2 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:1060056 CAPLUS
DN 145:403513
TI Skin-lightening cosmetics containing serine protease inhibitors and melanin formation inhibitors
IN Tanaka, Hiroshi
PA Narisu Cosmetic Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 10pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006273808	A	20061012	JP 2005-99906	20050330
PRAI	JP 2005-99906		20050330		

AB The serine protease inhibitors, especially, against trypsin, inhibit uptake of melanosomes by keratinocytes to prevent diffusion of melanins and show skin-lightening effect in combination with melanin formation inhibitors. Thus, application of a cream containing Tyr-Ile-Gly-Ser-Arg and ascorbic acid glucoside to female volunteers significantly lightened skin color.

IT 562043-82-7

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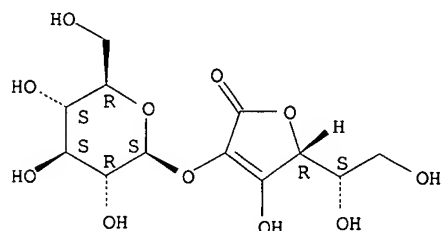
RL: BSU (Biological study, unclassified); COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(skin-lightening cosmetics containing serine protease inhibitors, especially oligopeptides having Arg at C-terminal, and melanin formation inhibitors)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O-β-D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:1012460 CAPLUS

DN 145:382981

TI Skin lightening compositions comprising vitamin C derivative

IN Majmudar, Gopa; Zhao, Wanli

PA Mary Kay Inc., USA

SO PCT Int. Appl., 75pp.

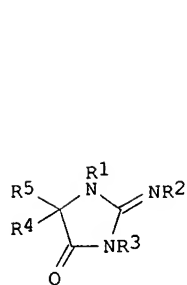
CODEN: PIXXD2

DT Patent

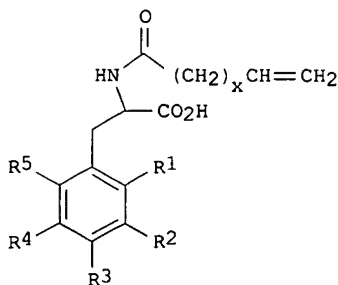
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006102289	A2	20060928	WO 2006-US10149	20060321
	WO 2006102289	A3	20061130		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	US 2006216254	A1	20060928	US 2006-385550	20060321
PRAI	US 2005-664333P	P	20050323		
OS	MARPAT 145:382981				
GI					



I



II

AB The present invention concerns methods and compns. that can be used, for

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example, in skin whitening or hyperpigmentation applications. The composition, in non-limiting aspects, can include a vitamin C derivative, niacinamide, an extract formulation comprising cucumber and lemon extract or compds. (I, R1, R2, R3, R4, and R5 = H, alkyl, hydroxy- or carboxyalkyl; II, R1, R2, R3, R4, and R5 = H, alkyl, hydroxy- or carboxyalkyl and x = 1-30). For example, skin-lightening formulation was prepared containing ascorbyl glucoside 0.01%, licorice extract 0.05%, niacinamide 0.01%, magnesium ascorbyl phosphate 0.05%, Uninontan 0.5% and botanical blend 0.5%.

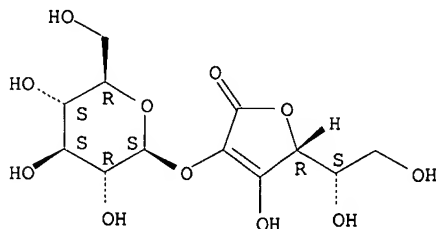
IT 562043-82-7

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(skin lightening compns. comprising vitamin C derivative)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O-β-D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:756087 CAPLUS
DN 145:195139
TI Cosmetic composition containing ascorbic acid 2-glucoside
IN Cho, Guk Yeong
PA Kolmar Co., Ltd., S. Korea
SO Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI KR 2004057413	A	20040702	KR 2002-84153	20021226
PRAI KR 2002-84153		20021226		

AB Provided is a cosmetic composition is provided which contains ascorbic acid 2-glucoside. The ascorbic acid 2-glucoside inhibits the formation of melanin, promotes the synthesis of collagen, lightens the color of existing melanin, inhibits skin inflammation caused by UV rays and the formation of free radicals. Therefore, the cosmetic composition is used for skin whitening. A skin whitening cosmetic composition is characterized by containing 0.001-10% of ascorbic acid 2-glucoside as a skin whitening agent. It is formulated into emulsion, essence, eye cream, nourishing cream, eye essence, toilet-water, facial pack, body cream and the like.

IT 562043-82-7

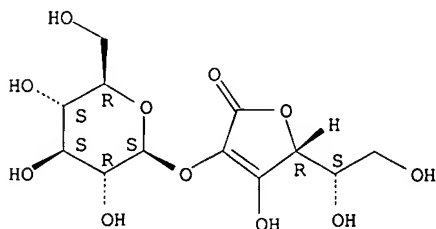
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)

(cosmetic composition containing ascorbic acid-2-glucoside)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O-β-D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



10/500,334

L14 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:12968 CAPLUS
DN 144:113891
TI Cosmetics containing poly(γ -glutamic acid)-vitamin complexes
IN Sung, Moon Hee; Park, Chung; Kim, Seok Chan; Park, Gyoo Soon; Uyama,
Hiroshi; Poo, Ha Ryoung; Song, Jae Jun
PA Bioleaders Corporation, S. Korea; Korea Research Institute of Bioscience
and Biotechnology
SO PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006001567	A1	20060105	WO 2005-KR603	20050304
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRAI KR 2004-47863 A 20040624

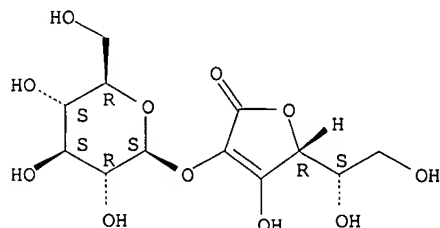
AB The present invention relates to PGA-vitamin complex containing poly(γ -glutamic acid) (PGA), vitamin preps. containing said PGA-vitamin complex or cosmetic comps. The inventive PGA-vitamin complex having excellent hygroscopicity, moisturizing property and skin compatibility, which is a complex of poly(γ -glutamic acid) and vitamin, has the effect of sustained-release as well as improves stability of vitamin having the functions, such as promotion of metabolism, anti-oxidation effect, protection of cell wall, increasing immunity, prevention of dry skin and keratinization, anti-wrinkles and moisturizing skin, thereby being useful as cosmetic comps. and sustained-release vitamin preps. for various applications. For example, PGA isolated from *Bacillus subtilis* was reacted with EDC and N-hydroxysuccinimide, and vitamin C for a complex formation, which was found to have moisturizer effect on the skin.

IT 562043-82-7D, reaction with polyglutamic acid
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetics containing poly(γ -glutamic acid) complexes with vitamin C and D and their derivs.)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

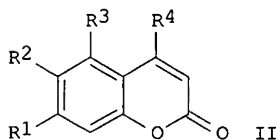
L14 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:1173637 CAPLUS
DN 143:446721
TI Skin preparations containing sophoraflavanone G and coumarin analogs
IN Imamura, Hitoshi; Tada, Akihiro
PA Pola Chemical Industries, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DT Patent
LA Japanese

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10/500,334

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005306816	A	20051104	JP 2004-129147	20040426
PRAI	JP 2004-129147		20040426		
OS	MARPAT 143:446721				
GI					



AB Skin prepsns., which relieve UV-induced inflammation and condition skin, contain 0.01-1% sophoraflavanone G (I) and/or its salts and 0.001-0.1% coumarin analogs II. Thus, pretreatment of skin of volunteers with a lotion containing amorphous product containing 0.19% I (prepared from Sophora flavescens root) and Aesculus hippocastanum extract containing 0.0028% esculin suppressed UV-induced pigmentation and decrease in area of keratinocytes.

IT 562043-82-7

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);

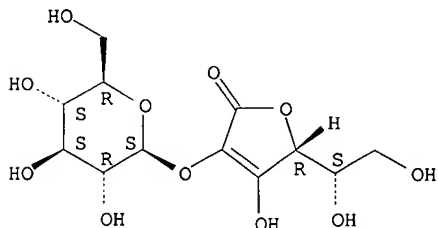
USES (Uses)

(skin prepsns. containing sophoraflavanone G and coumarin analogs as inflammation inhibitors and melanin formation inhibitors)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O-β-D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:632278 CAPLUS

DN 143:139181

TI Oral and injection compositions containing vitamin C derivatives, antitumor polysaccharides, and antioxidants, and manufacture thereof

IN Iida, Shigeo

PA Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005194255	A	20050721	JP 2004-28651	20040106
PRAI	JP 2004-28651		20040106		

AB The invention relates to an oral and/or injection composition for treatment and/or prevention of various disease including tumor, wherein the composition is characterized by containing a bound compound of a vitamin C derivative, an antitumor polysaccharide, and an antioxidant. A method for manufacturing the composition including freeze-drying and/or spray-drying of the mixture of the components is also disclosed. For example, a mixture containing ascorbic acid 40, L-ascorbic acid-2-O-phosphate sodium salt 7, 6-O-palmitoyl-L-ascorbic acid 3, Agaricus blazei extract 16, Phellinus linteus 16, fucoidan 16, and marine taurine 2 parts was freeze-dried. The obtained freeze-dried composition was injected to mice to examine the antitumor effect.

IT 562043-82-7

RL: PEP (Physical, engineering or chemical process); PYP (Physical

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process); THU (Therapeutic use); BIOL (Biological study); PROC (Process);

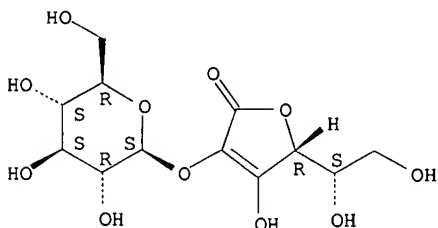
USES (Uses)

(oral and injection compns. containing vitamin C derivs., polysaccharides, and antioxidants, and manufacture thereof)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:554416 CAPLUS

DN 143:247566

TI A novel vitamin C analog, 2-O-(β -D-glucopyranosyl)ascorbic acid:

Examination of enzymatic synthesis and biological activity

AU Toyada-Ono, Yoshiko; Maeda, Mitsuru; Nakao, Masahiro; Yoshimura, Makiko; Sugiura-Tomimori, Namino; Fukami, Harukazu; Nishioka, Hitomi; Miyashita, Yayoi; Kojo, Shosuke

CS Institute for Health Care Science, Technological Development Center, Suntory Ltd., Osaka, 618-0001, Japan

SO Journal of Bioscience and Bioengineering (2005), 99(4), 361-365

CODEN: JBBIF6; ISSN: 1389-1723

PB Society for Biotechnology, Japan

DT Journal

LA English

AB 2-O-(β -D-Glucopyranosyl)ascorbic acid (AA2 β G) isolated from a popular traditional Chinese food (Lycium fruit) was synthesized using cellulase derived from *Trichoderma* sp. with cellobiose as a glucose donor. 6-O-(β -D-Glucopyranosyl)ascorbic acid as well as AA2 β G was also synthesized in this reaction. The vitamin C activity of AA2 β G was also evaluated using inherently scorbutic (osteogenic disorder Shionogi [ODS]) rats. The rats were fed vitamin C-deficient food and water containing AA2 β G for 21 days. AA2 β G supported their growth and the level of vitamin C in tissues was moderately maintained. The vitamin C level in some tissues depended on the hydrolytic activity of AA2 β G (β -glucosidase activity) although the correlation was not statistically significant ($P=0.08$). The results indicate that AA2 β G has pro-vitamin C activity.

IT 562043-82-7P

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);

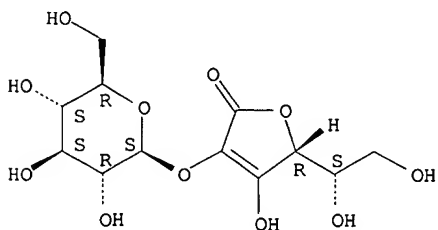
BIOL (Biological study); PREP (Preparation)

(enzymic synthesis and biol. activity of novel vitamin C analog, 2-O-(β -D-glucopyranosyl)ascorbic acid)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



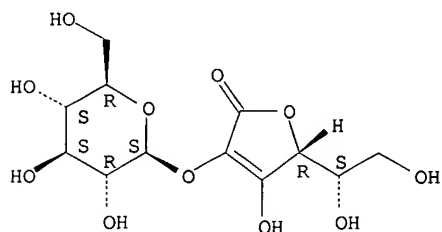
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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10/500,334

L14 ANSWER 9 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:417280 CAPLUS
DN 144:66007
TI Reduction of UVB/A-generated free radicals by sodium L-ascorbyl-2-phosphate in cultured mouse skin
AU Masatsuji-Kato, Eiko; Tsuzuki, Toshi; Kobayashi, Shizuko
CS Corp. R & D Cent., Showa Denko K. K., Chiba, 267-0056, Japan
SO Journal of Health Science (2005), 51(2), 122-129
CODEN: JHSCFD; ISSN: 1344-9702
PB Pharmaceutical Society of Japan
DT Journal
LA English
AB The quenching abilities of sodium L-ascorbyl-2-phosphate (APS) and ascorbic acid 2-glucose (AG) against UVB/A-generated free radicals in cultured mouse skin were investigated using ESR. The relation between their quenching ability and protective effects against photodamage were also compared to those of ascorbic acid (AsA) pretreatment. Both APS and AG were able to scavenge UVB/A-generated hydroxyl radicals under aqueous conditions (pH 7.2) in a manner similar to that seen with AsA; however, APS was a more effective scavenger than AG. Similar results were obtained ex vivo. Both derivs. could protect skin from UVB/A-induced photodamage, as determined by a reduction in the presence of sunburn cells and DNA fragmentation. However, AsA pretreatment had the weakest protective effect, even though cutaneous, its level was the highest among the three agents tested before irradiation. These results indicated that the superior protective effect of APS is related to its direct free radical scavenging ability, rather than to its conversion to AsA.
IT 562043-82-7
RL: BSU (Biological study, unclassified); BIOL (Biological study) (reduction of UVB/A-generated free radicals by ascorbic acid derivs. including sodium L-ascorbyl-2-phosphate in cultured mouse skin)
RN 562043-82-7 CAPLUS
CN L-Ascorbic acid, 2-O-β-D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:408245 CAPLUS
DN 142:451470
TI Viscous, storage-stable, nonsticky cosmetics containing salt-type active ingredients
IN Sakura, Toru; Nakamura, Tadashi
PA Shiseido Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005120056	A	20050512	JP 2003-359583	20031020
	CN 1636600	A	20050713	CN 2004-10086936	20041020
PRAI	JP 2003-359018	A	20031020		
	JP 2003-359583	A	20031020		

AB Title cosmetics, especially useful for skin-lightening cosmetics, contain xanthan gum (I) and guar gum (II), preferably in (20-50):(50-80). The gums show synergistic thickening effect. Thus, viscous solution containing 3:2 I-II mixture was mixed with aqueous ascorbic acid 2-glucoside solution at 50° and cooled to show 4300 mPa-s at 30°.
IT 562043-82-7

McIntosh

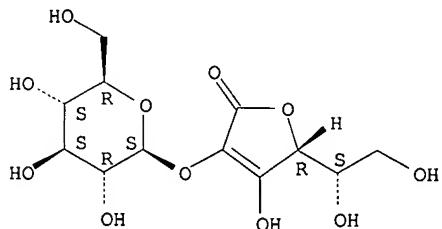
10/500,334

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(viscous skin-lightening cosmetics containing xanthan gum, guar gum, and
ascorbic acids and/or alkoxysalicylates)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:155690 CAPLUS

DN 142:225270

TI Drip-resistant liquid compositions containing thickeners and chelating
agents for hair and skin

IN Matsumoto, Satoshi; Kurimoto, Hirokatsu; Hamachi, Kano; Saito, Yoshinobu;
Okuda, Takaya; Nishina, Tetsuo

PA P and Pf K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005047876	A	20050224	JP 2003-283472	20030731
PRAI	JP 2003-283472		20030731		

AB The comps. contain thickening agents, chelating agents, and medicinal
components in H₂O-alcs. A hair growth stimulant was prepared from
(GeCH₂CH₂CO₂H)2O3 0.15, Bio Hyaluro 12 1.0, Clewat OH 300 (chelating
agent) 0.36, EtOH 30.0, and H₂O to 100 weight%. The stimulant showed high
viscosity even after storage at 37° for 4 wk.

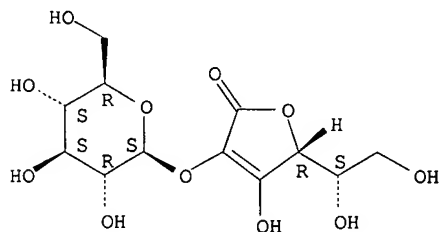
IT 562043-82-7

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(drip-resistant liquid cosmetics containing thickeners, chelating agents, and
medicinal substances)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:14228 CAPLUS

DN 142:100007

TI Skin preparations containing ascorbic acid derivative

IN Maeda, Mitsuru; Nakao, Masahiro; Fukami, Harukazu

PA Suntory Limited, Japan

SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

McIntosh

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005000319	A1	20050106	WO 2004-JP9012	20040625
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, T2, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004251549	A1	20050106	AU 2004-251549	20040625
	CA 2531017	A1	20050106	CA 2004-2531017	20040625
	EP 1640025	A1	20060329	EP 2004-746481	20040625
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	CN 1812795	A	20060802	CN 2004-80017691	20040625
PRAI	JP 2003-183610	A	20030626		
	WO 2004-JP9012	W	20040625		

AB It is intended to provide a skin composition for external use that contains an ascorbic acid derivative having a high stability, being continuously usable in vivo, having a strong antioxidant effect and showing little skin irritation and has an excellent skin permeability. A composition for external use is characterized by containing 2-O-(β -D-glucopyranosyl)ascorbic acid or its salt or ester being safe to the human body together with optionally treated koji mold cells.

IT 562043-83-8P

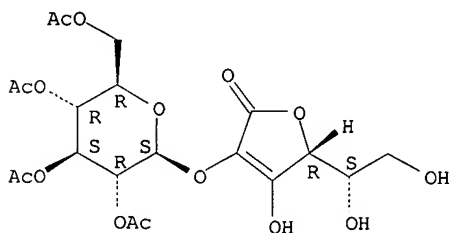
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of glucopyranosylascorbate for use in topical compns.)

RN 562043-83-8 CAPLUS

CN L-Ascorbic acid, 2-O-(2,3,4,6-tetra-O-acetyl- β -D-glucopyranosyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 562043-82-7P

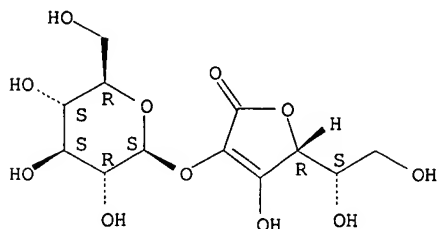
RL: COS (Cosmetic use); NPO (Natural product occurrence); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(skin prepns. containing ascorbic acid derivative and koji mold)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



10/500,334

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:980020 CAPLUS

DN 142:266282

TI Cosmetic compositions comprising vitamin C or derivatives thereof and
Areca catechu L extract for preventing skin aging

IN Choi, Jeong Do; Lee, Geon Guk; Lee, Gwang Sik

PA Coreana Cosmetics Co., Ltd., S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2003043471	A	20030602	KR 2001-74658	20011128
PRAI	KR 2001-74658		20011128		

AB Provided is a cosmetic compns. comprising as active ingredient, vitamin C or derivs. thereof and an Areca catechu L extract for preventing skin aging to increase wrinkle care effect and improve moisturization, and abirritate skin stimulation. A composition for preventing skin aging is characterized by comprising 0.005-20% of vitamin C or its derivs., such as Et ascorbyl ether, magnesium ascorbyl phosphate, ascorbic acid 2-glucoside or allantoin ascorbate, and 0.0001-10.0% of an Areca catechu L extract

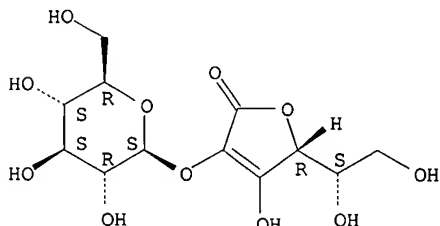
IT 562043-82-7

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetic compns. comprising vitamin C or derivs. thereof and Areca catechu L extract for preventing skin aging)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 14 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:770688 CAPLUS

DN 142:406702

TI Suppressive effects of ascorbate derivatives on ultraviolet-B-induced
injury in HaCaT human keratinocytes

AU Yasuda, Shin; Tada, Mikiro; Yamada, Koji; Takahata, Kyoya

CS Laboratory of Food Biological Chemistry, Faculty of Agriculture, Okayama
University, Okayama, 700-0082, Japan

SO In Vitro Cellular & Developmental Biology: Animal (2004), 40(3 and 4),
71-73

CODEN: IVCAED; ISSN: 1071-2690

PB Society for In Vitro Biology

DT Journal

LA English

AB The aging of skin, including sunburning, is caused by UV irradiation. Here, we examined the inhibitory effect of ascorbic acid (AsA) and its derivs. AsA 2-phosphate (AA-2P) and AsA 2-glucoside (AA-2G) on UV-B-induced cytotoxicity in HaCaT keratinocytes. Results show that cell viability significantly decreased when exposed to UV-B at 0.1-0.4 J/cm² in a dose-dependent manner. In this study, AsA could not inhibit cytotoxicity, but AA-2P and AA-2G was able to cancel the harmful effect of UV-B when treated at high levels of 0.5-5 mM. These results indicate that the masking of the C-2 OH group may be an effective modification for AsA to inhibit UV-B-induced cytotoxicity in human keratinocytes.

IT 562043-82-7

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)

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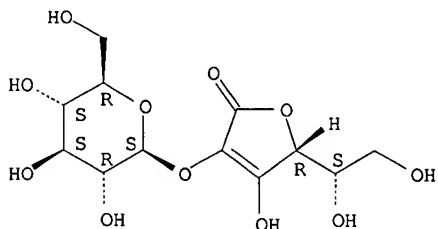
10/500,334

(suppressive effects of ascorbate derivs. on UV-B-induced injury in HaCaT human keratinocytes)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 15 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:717801 CAPLUS

DN 141:230694

TI Topical preparations containing ascorbates with reduced stinging for prevention and treatment of acne

IN Ikeno, Hiroshi; Nomura, Koichi; Yoshihama, Keiichiro; Mori, Fukuyoshi

PA Pola Chemical Industries, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004244370	A	20040902	JP 2003-35845	20030214
PRAI	JP 2003-35845		20030214		

AB The topical prepsns. contain 4-6 weight% ascorbic acid (AA), its derivs., and/or its salts and 0.4-1 weight% buffers. A composition containing citric acid 0.035, Na citrate 0.5, di-Na ascorbyl phosphate 5 weight parts, anti-inflammatory herbal medicine exts., etc., showed reduced stinging.

IT 562043-82-7

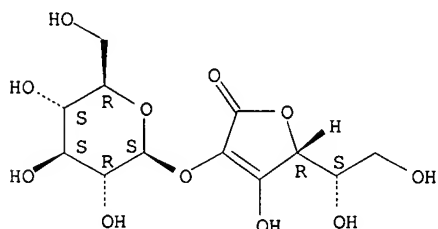
RL: COS (Cosmetic use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(topical prepsns. containing ascorbates and buffers for reduced stinging for prevention and treatment of acne)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:518460 CAPLUS

DN 141:300979

TI Simultaneous determination of magnesium ascorbyl phosphate, ascorbyl glucoside, kojic acid, arbutin and hydroquinone in skin whitening cosmetics by HPLC

AU Huang, Shou-Chieh; Lin, Cheng-Chin; Huang, Ming-Chuan; Wen, Kuo-Ching

CS Department of Health, Executive Yuan, Bureau of Food and Drug Analysis, Taipei, 115, Taiwan

SO Yaowu Shipin Fenxi (2004), 12(1), 13-18

McIntosh

CODEN: YSFEEP; ISSN: 1021-9498

PB National Laboratories of Food and Drugs, Dep. of Health, Executive Yuan

DT Journal

LA English

AB A HPLC method was developed for simultaneous determination of 5 whitening ingredients: magnesium ascorbyl phosphate, ascorbyl glucoside, kojic acid, arbutin and hydroquinone decomposed from arbutin in cosmetics. Samples were extracted with 0.05M KH₂PO₄ buffer solution (pH 2.5) and analyzed on a Cosmosil 5 C18-AR-II column. A mixture of 0.05 M KH₂PO₄ buffer solution (pH 2.5) and methanol (99:1, volume/volume) was used as mobile phase. The UV detector was set at 280 nm. Pyridoxine was used as an internal standard. The related coeffs., R², of regression equations of the 5 standard curves were 0.9998-1.0000. The relative standard deviations of the 5 ingredients for intraday and interday anal. were <2.4%. The average recoveries of these 5 ingredients spiked in sample ranged 93.5-103.3%. The relative standard deviations of average recoveries were <1.3%. The limits of quantitation in cosmetics were 80.0, 20.0, 3.0, 15.0 and 10.0 µg/mL for magnesium ascorbyl phosphate, ascorbyl glucoside, kojic acid, arbutin and hydroquinone, resp.

IT 562043-82-7

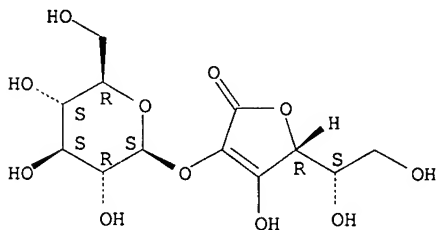
RL: ANT (Analyte); ANST (Analytical study)

(simultaneous determination of ascorbyl phosphate and glucoside and kojic acid and arbutin and hydroquinone in skin whitening cosmetics by HPLC)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O-β-D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 17 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:178992 CAPLUS

DN 140:374192

TI 2-O-(β-D-glucopyranosyl)ascorbic acid, a novel ascorbic acid analogue isolated from Lycium fruit

AU Toyoda-Ono, Yoshiko; Maeda, Mitsuru; Nakao, Masahiro; Yoshimura, Makiko; Sugiura-Tomimori, Namino; Fukami, Harukazu

CS Health Care Science Laboratory, Institute for Food & Beverage, Technological Development Center, Suntory Ltd., Osaka, 618-0001, Japan

SO Journal of Agricultural and Food Chemistry (2004), 52(7), 2092-2096

CODEN: JAFCAU; ISSN: 0021-8561

PB American Chemical Society

DT Journal

LA English

OS CASREACT 140:374192

AB A novel stable precursor of ascorbic acid (vitamin C), 2-O-(β-D-glucopyranosyl)ascorbic acid, was isolated from both the ripe fresh fruit and dried fruit of Lycium barbarum L., a plant of the Solanaceae family. The chemical structure was inferred by instrumental analyses and confirmed by chemical synthesis. The dried fruit of Lycium barbarum L. Contained .apprx.0.5% of it, which is comparable to the ascorbic acid content of fresh lemons. It increased the blood ascorbic acid by oral administration to rats, and it was also detected in blood from the portal vein.

IT 562043-83-8

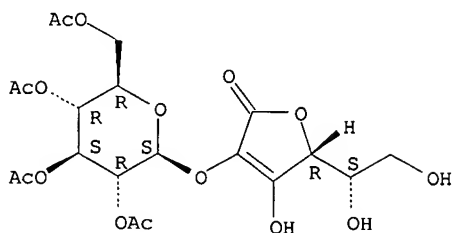
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(ascorbic acid analog, 2-O-(β-D-glucopyranosyl)ascorbic acid, isolated from Lycium fruit)

RN 562043-83-8 CAPLUS

CN L-Ascorbic acid, 2-O-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (9CI) (CA INDEX NAME)

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Absolute stereochemistry.



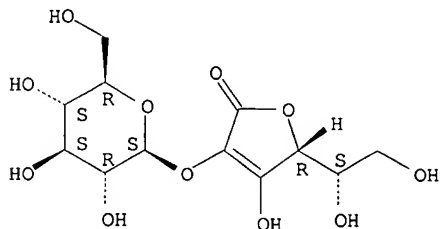
IT 562043-82-7P

RL: PRP (Properties); PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation)
(ascorbic acid analog, 2-O-(β -D-glucopyranosyl)ascorbic acid, isolated from Lycium fruit)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:177905 CAPLUS

DN 140:222890

TI Cosmetic and dermatological preparation containing 8-hexadecene-1,16-dicarboxylic acid for treating skin pigmentation disorders

IN Wolber, Rainer; Smuda, Christoph; Batzer, Jan; Biergiesser, Helga; Raschke, Thomas; Max, Heiner; Fey, Sven

PA Beiersdorf A.-G., Germany

SO Ger. Offen., 36 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10238449	A1	20040304	DE 2002-10238449	20020822
	WO 2004017935	A1	20040304	WO 2003-EP50249	20030620
	W: JP, US				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
EP	1572146	A1	20050914	EP 2003-792423	20030620
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
PRAI	DE 2002-10238449	A	20020822		
	WO 2003-EP50249	W	20030620		

AB The invention concerns topical compns. that include 8-hexadecene-1,16-dicarboxylic acid [20701-68-2] and at least one of the components from the group of ursolic acid, agouti peptides, licorice extract, hydroquinone, green tea extract, arbutin, biotin, uva-ursi extract, glycyrrhizine, placenta extract, ascorbyl glucoside, endothelin antagonist and chamomile extract. Thus a composition contained (weight/weight%): glyceryl stearate citrate 2; myristyl myristate 1; stearyl alc. 2; cetyl alc. 1; hydrogenated coco glycerides 2; butylene glycol dicaprylate/dicaprate 1; ethylhexyl coco fatty acid ester 3; vaseline 1; cyclomethicone 3; dicaprylyl eter 1; titanium dioxide 1; ethylhexylmethoxy cinnamate 5; butylmethoxy dibenzoyl methane 1; octadecene dioic acid 1; ursolic acid 0.1; iminodisuccinate sodium salt

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0.2; phenoxyethanol 0.3; paraben 0.6; diazolidinyl urea 0.25; carbomer 0.05; ammonium polyacryloyl di-Me taurate 0.4; glycerin 10; dyes 0.05; fillers and additives 0.1; perfume q.s.; water to 100.

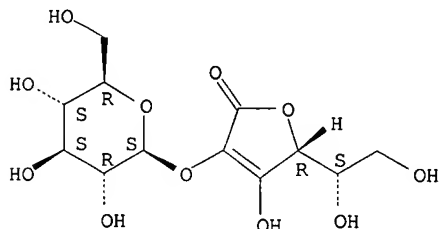
IT 562043-82-7

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetic and dermatol. preparation containing 8-hexadecene-1,16-dicarboxylic acid for treating skin pigmentation disorders)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:159324 CAPLUS

DN 140:204815

TI Skin-lightening cosmetics containing phosphatidylcholines and ascorbic acids

IN Sakaguchi, Hiroyuki

PA Q. P. Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004059496	A	20040226	JP 2002-219675	20020729
PRAI	JP 2002-219675		20020729		
OS	MARPAT 140:204815				

AB Cosmetics contain R1OCH2CH(OR2)CH2OP(O)(O-)OCH2CH2N+Me3 (I; R1 = C14-22 linear fatty acid residue; R2 = C8-10 linear saturated fatty acid residue) and ascorbic acids. I improves skin permeability of ascorbic acids. A cream was prepared from stearic acid 10.0, squalane 10.0, silicone oil 2.0, glycerin monostearate 2.0, butylparaben 0.1, phosphatidylcholine (prepared from Egg Yolk Lysolecithin LPC 1 and octanoic acid) 2.0, ascorbic acid 2-glucoside 3.0, sorbitol 5.0, methylparaben 0.1, KOH, and H2O to 100%.

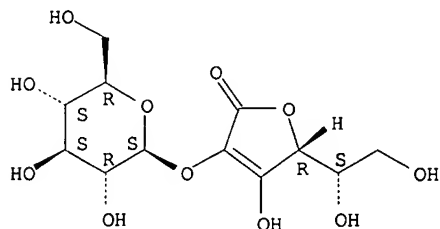
IT 562043-82-7

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(skin-lightening cosmetics containing phosphatidylcholines and ascorbic acids)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:60301 CAPLUS

DN 140:105308

TI Cyclic AMP-modulating compounds and compositions for the treatment of

McIntosh

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peripheral neuropathies, preparation thereof, and uses
IN Fontes, Michel; Passage, Edith; Sangeudolce, Veronique; Noreel,
Jean-Chretien
PA Universite de la Mediterranee, Fr.; Institut National de la Sante et de la
Recherche Medicale; Association Francaise Contre Les Myopathies
SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004006911	A2	20040122	WO 2003-FR2236	20030715
	WO 2004006911	A3	20040408		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	FR 2842422	A1	20040123	FR 2002-8966	20020716
	FR 2842422	B1	20060630		
	CA 2492368	A1	20040122	CA 2003-2492368	20030715
	AU 2003271807	A1	20040202	AU 2003-271807	20030715
	EP 1526850	A2	20050504	EP 2003-753643	20030715
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
	US 2005187290	A1	20050825	US 2003-521239	20030715
	JP 2005537264	T	20051208	JP 2004-520788	20030715
PRAI	FR 2002-8966	A	20020716		
	WO 2003-FR2236	W	20030715		

AB The invention discloses the use of a cAMP modulator in the preparation of compns. that are intended for the prevention or treatment of peripheral neuropathies. The invention further discloses tools and kits used to prepare the compns. The cAMP modulators of the invention include a variety of vitamin C compns.

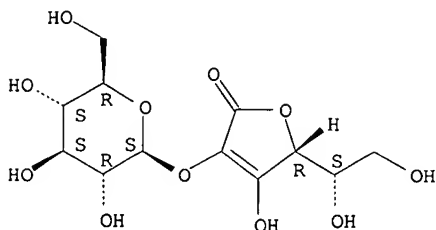
IT 562043-82-7

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cAMP-modulating compds. and compns. for treatment of peripheral neuropathies)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2003:821550 CAPLUS

DN 140:258573

TI Novel provitamin C products for beautiful skin: difference of pharmacological properties between ascorbic acid 2-O- β -D-glucoside and α -type provitamin C

AU Kawamura, Takuya; Maeda, Kentaro; Maeda, Mitsuru; Fukami, Harukazu; Kiso, Yoshinobu; Akagi, Kunika; Miwa, Nobuhiko

CS Dep. of Bioresources, Hiroshima Prefectural University, Japan

SO Bihada-Hifu Bogo to Baiogijutsu (2003), 136-151. Editor(s): Miwa, Nobuhiko. Publisher: Shi Emu Shi Shuppan, Tokyo, Japan.

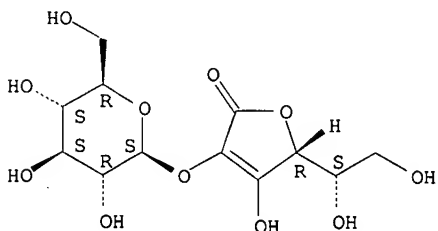
CODEN: 69ERD9; ISBN: 4-88231-408-8

McIntosh

10/500,334

DT Conference; General Review
LA Japanese
AB A review. Difference of pharmacol. properties between α -type provitamin C 2-O- α -D-glucopyranosyl-L-ascorbic acid (its metabolite is vitamin C) and natural products extract 2-O- β -D-glucopyranosyl-L-ascorbic acid (novel provitamin C product) beautiful skin in the skin preparation is reviewed together with their mechanism and examples.
IT 562043-82-7
RL: COS (Cosmetic use); PAC (Pharmacological activity); BIOL (Biological study); USES (Uses)
(novel provitamin C products for beautiful skin: difference of pharmacol. properties between ascorbic acid 2-O- β -D-glucoside and α -type provitamin C)
RN 562043-82-7 CAPLUS
CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



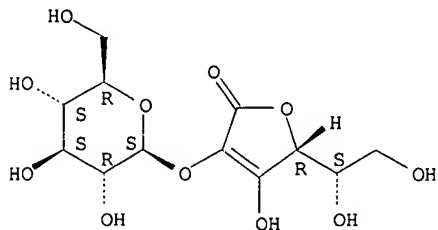
L14 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:685984 CAPLUS
DN 139:218961
TI Skin-lightening cosmetics containing Dioscorea composita extracts and ascorbic acids
IN Hikima, Toshio; Tahata, Takashi; Yoshimi, Fuminobu; Yoshitani, Satoshi
PA Kanebo, Ltd., Japan; Mitsui Chemicals Inc.
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003246719	A	20030902	JP 2002-48734	20020225
	JP 3784728	B2	20060614		
PRAI	JP 2002-48734		20020225		

OS MARPAT 139:218961
AB The cosmetics, which show good storage stability, contain D. composita extract and water-soluble ascorbic acid derivs. A skin lotion was prepared from EtOH 10, polyoxyethylene hydrogenated castor oil derivative 0.5, dipropylene glycol 3, glycerin 2, L-ascorbic acid phosphate Mg salt 3.0, citric acid 0.1, Na citrate 0.03, D. composita extract 0.5, and H₂O to 100 weight%.

IT 562043-82-7
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(skin-lightening cosmetics containing Dioscorea composita exts. and ascorbic acids)
RN 562043-82-7 CAPLUS
CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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L14 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2003:551525 CAPLUS
 DN 139:116587
 TI 2-O-(β -D-Glucopyranosyl)ascorbic acid, process for its preparation,
 and its use in foods and cosmetics
 IN Maeda, Mitsuru; Nakao, Masahiro; Fukami, Harukazu
 PA Suntory Limited, Japan
 SO PCT Int. Appl., 67 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003057707	A1	20030717	WO 2002-JP13857	20021227
	W: AU, CA, CN, JP, KR, US				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR				
	CA 2472114	A1	20030717	CA 2002-2472114	20021227
	AU 2002359000	A1	20030724	AU 2002-359000	20021227
	EP 1461347	A1	20040929	EP 2002-793462	20021227
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, CY, TR, BG, CZ, EE, SK				
	CN 1610691	A	20050427	CN 2002-826317	20021227
	US 2005113312	A1	20050526	US 2003-500334	20021227
	JP 2005518401	T	20050623	JP 2003-558021	20021227
PRAI	JP 2001-400258	A	20011228		
	WO 2002-JP13857	W	20021227		
OS	MARPAT 139:116587				

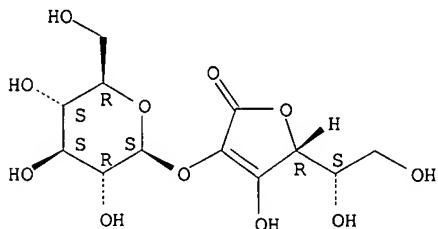
AB The present invention provides a novel ascorbic acid derivative as a provitamin C with improved stability in the body and prolonged life in the body compared to conventionally known 2-O-(α -D-glucopyranosyl)ascorbic acid. The composition comprising the novel compound 2-O-(β -D-glucopyranosyl)ascorbic acid has been extracted from plants such as from Ningxia (*Lycium barbarum*) and/or *Lycium chinense*. The comps. comprising 2-O-(β -D-glucopyranosyl)ascorbic acid may be enzymically synthesized using β -D-glucosyltransferase. Pure 2-O-(β -D-glucopyranosyl)ascorbic acid may be produced from such comps. Alternatively, 2-O-(β -D-glucopyranosyl)ascorbic acid may be produced by chemical synthesis. The 2-O-(β -D-glucopyranosyl)ascorbic acid results in higher stability and a prolonged life of vitamin C when ingested in the body compared to the corresponding α -D-glucopyranosyl derivative, and is therefore highly suitable as a provitamin C to be used in cosmetics and foods.

IT 562043-82-7DP, tetraacylated 562043-82-7P
 RL: COS (Cosmetic use); FFD (Food or feed use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (2-O-(β -D-Glucopyranosyl)ascorbic acid, process for its preparation, and its use in foods and cosmetics)

RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

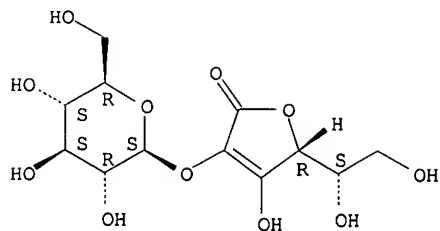


RN 562043-82-7 CAPLUS

CN L-Ascorbic acid, 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

10/500,334



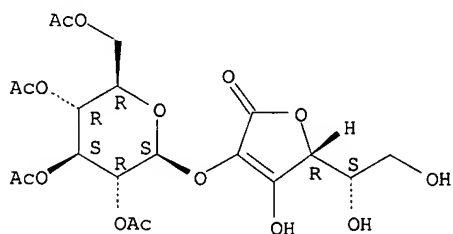
IT 562043-83-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(2-O-(β -D-Glucopyranosyl)ascorbic acid, process for its preparation,
and its use in foods and cosmetics)

RN 562043-83-8 CAPLUS

CN L-Ascorbic acid, 2-O-(2,3,4,6-tetra-O-acetyl- β -D-glucopyranosyl)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/500,334

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truncation
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NEWS 8 SEP 25 CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 9 SEP 25 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 10 SEP 28 CEABA-VTB classification code fields reloaded with new
classification scheme
NEWS 11 OCT 19 LOGOFF HOLD duration extended to 120 minutes
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has been enhanced and reloaded
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to 50,000
NEWS 22 DEC 01 CAS REGISTRY updated with new ambiguity codes
NEWS 23 DEC 11 CAS REGISTRY chemical nomenclature enhanced
NEWS 24 DEC 14 WPIDS/WPINDEX/WPIX manual codes updated
NEWS 25 DEC 14 GBFULL and FRFULL enhanced with IPC 8 features and
functionality
NEWS 26 DEC 18 CA/CAplus pre-1967 chemical substance index entries enhanced
with preparation role
NEWS 27 DEC 18 CA/CAplus patent kind codes updated
NEWS 28 DEC 18 MARPAT to CA/CAplus accession number crossover limit increased
to 50,000
NEWS 29 DEC 18 MEDLINE updated in preparation for 2007 reload
NEWS 30 DEC 27 CA/CAplus enhanced with more pre-1907 records

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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***** STN Columbus *****

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=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

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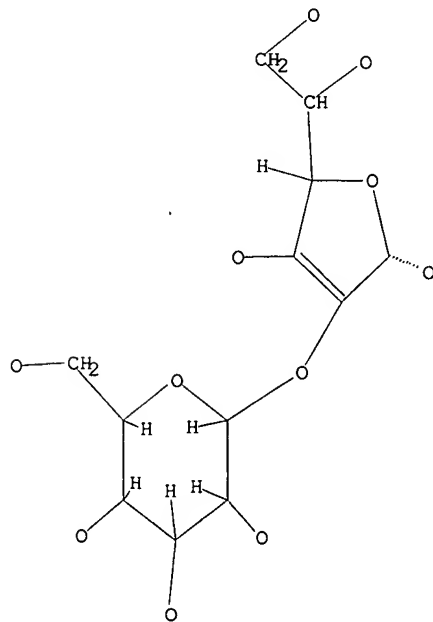
Uploading C:\Program Files\Stnexp\Queries\10500334.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

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=> s ll sss sam
SAMPLE SEARCH INITIATED 13:44:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 137 TO ITERATE

100.0% PROCESSED 137 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2038 TO 3442
PROJECTED ANSWERS: 4 TO 200

L2 4 SEA SSS SAM L1

=> s ll full
FULL SEARCH INITIATED 13:44:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2716 TO ITERATE

100.0% PROCESSED 2716 ITERATIONS 66 ANSWERS
SEARCH TIME: 00.00.01

L3 66 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 172.10 172.31

FILE 'CAPLUS' ENTERED AT 13:44:33 ON 02 JAN 2007
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FILE COVERS 1907 - 2 Jan 2007 VOL 146 ISS 2
FILE LAST UPDATED: 1 Jan 2007 (20070101/ED)

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=> s l3
L4 430 L3

=> file ref
'REF' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'CAPLUS'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=> file reg
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.47 172.78

FILE 'REGISTRY' ENTERED AT 13:44:48 ON 02 JAN 2007
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DICTIONARY FILE UPDATES: 1 JAN 2007 HIGHEST RN 916582-62-2

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conducting SmartSELECT searches.

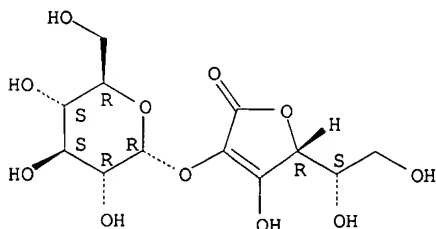
REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

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=> d 13

L3 ANSWER 1 OF 66 REGISTRY COPYRIGHT 2007 ACS on STN
RN 847780-90-9 REGISTRY
ED Entered STN: 01 Apr 2005
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, potassium salt (9CI) (CA
INDEX NAME)
FS STEREOSEARCH
MF C12 H18 O11 . x K
SR CA
LC STN Files: CA, CAPLUS
CRN (129499-78-1)

Absolute stereochemistry.



● x K

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=>

Uploading C:\Program Files\Stnexp\Queries\10500334a.str

L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 15 sss sam

SAMPLE SEARCH INITIATED 13:48:31 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 137 TO ITERATE

100.0% PROCESSED 137 ITERATIONS
SEARCH TIME: 00.00.01

2 ANSWERS

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FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2038 TO 3442
PROJECTED ANSWERS: 2 TO 124

L6 2 SEA SSS SAM L5

=> s 15 full

FULL SEARCH INITIATED 13:48:36 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2716 TO ITERATE

100.0% PROCESSED 2716 ITERATIONS
SEARCH TIME: 00.00.01

38 ANSWERS

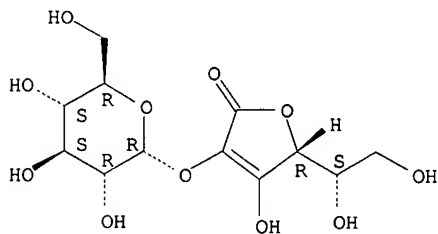
L7 38 SEA SSS FUL L5

=> d scan

L7 38 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN L-Histidine, N-β-alanyl-3-methyl-, mononitrate, mixt. with
2-O-α-D-glucopyranosyl-L-ascorbic acid (9CI)
MF C12 H18 O11 . C10 H16 N4 O3 . H N O3
CI MXS

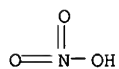
CM 1

Absolute stereochemistry.



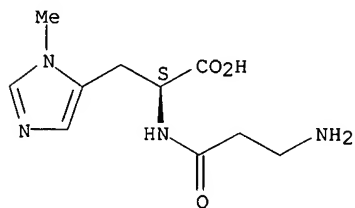
CM 2

CM 3



CM 4

Absolute stereochemistry.



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE

ENTRY

176.75

TOTAL

SESSION

349.53

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L1 STRUCTURE UPLOADED
L2 4 S L1 SSS SAM
L3 66 S L1 FULL

FILE 'CAPLUS' ENTERED AT 13:44:33 ON 02 JAN 2007

L4 430 S L3

FILE 'REGISTRY' ENTERED AT 13:44:48 ON 02 JAN 2007

L5 STRUCTURE UPLOADED
L6 2 S L5 SSS SAM
L7 38 S L5 FULL

FILE 'CAPLUS' ENTERED AT 13:49:07 ON 02 JAN 2007

=> s l7

L8 423 L7

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.47	350.00

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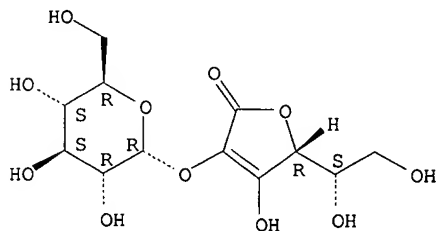
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=> d 1-38 17

L7 ANSWER 1 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 847780-90-9 REGISTRY
ED Entered STN: 01 Apr 2005
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, potassium salt (9CI) (CA
INDEX NAME)
FS STEREOSEARCH
MF C12 H18 O11 . x K
SR CA
LC STN Files: CA, CAPLUS
CRN (129499-78-1)

Absolute stereochemistry.



● x K

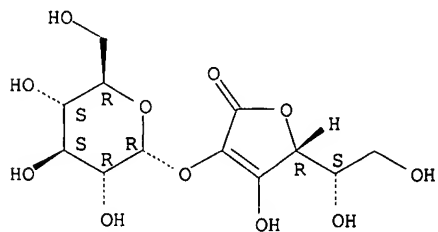
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 2 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 718621-33-1 REGISTRY
ED Entered STN: 29 Jul 2004
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, compd. with morpholine
(1:1) (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C12 H18 O11 . C4 H9 N O
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.



CM 2

CRN 110-91-8
CMF C4 H9 N O



McIntosh

10/500,334

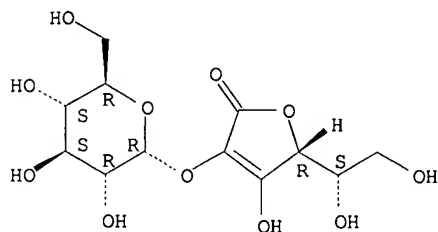
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 3 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 718621-32-0 REGISTRY
ED Entered STN: 29 Jul 2004
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, compd. with
2,2',2''-nitrilotris[ethanol] (1:1) (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C12 H18 O11 . C6 H15 N O3
SR CA
LC STN Files: CA, CAPLUS

CM 1

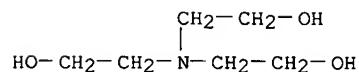
CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.



CM 2

CRN 102-71-6
CMF C6 H15 N O3



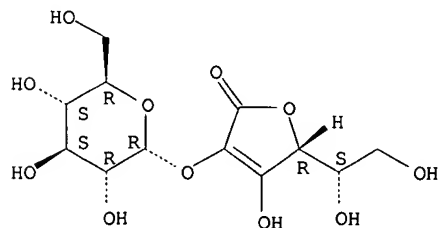
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 4 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 718621-31-9 REGISTRY
ED Entered STN: 29 Jul 2004
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, compd. with
2-amino-2-methyl-1,3-propanediol (1:1) (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C12 H18 O11 . C4 H11 N O2
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.

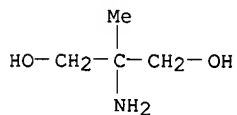


McIntosh

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CM 2

CRN 115-69-5
CMF C4 H11 N O2



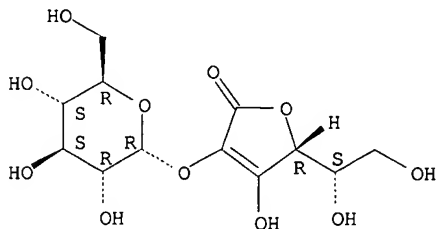
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 5 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 718621-30-8 REGISTRY
ED Entered STN: 29 Jul 2004
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, compd. with
2-(methylamino)ethanesulfonic acid monosodium salt (1:1) (9CI) (CA INDEX
NAME)
FS STEREOSEARCH
MF C12 H18 O11 . C3 H9 N O3 S . Na
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.



CM 2

CRN 4316-74-9 (107-68-6)
CMF C3 H9 N O3 S . Na

MeNH-CH₂-CH₂-SO₃H

● Na

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 6 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 718621-29-5 REGISTRY
ED Entered STN: 29 Jul 2004
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, compd. with
2-amino-2-methyl-1-propanol (1:1) (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C12 H18 O11 . C4 H11 N O
SR CA
LC STN Files: CA, CAPLUS

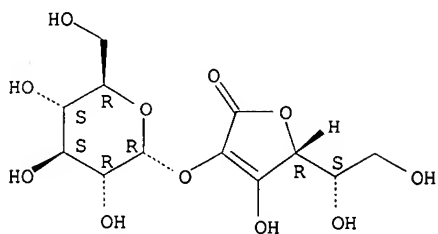
CM 1

McIntosh

10/500,334

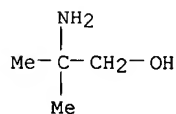
CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.



CM 2

CRN 124-68-5
CMF C4 H11 N O



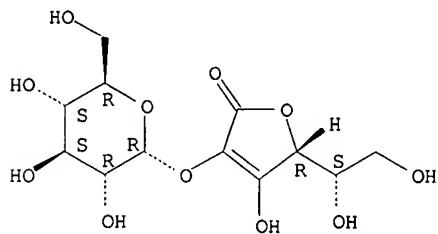
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 7 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 718621-28-4 REGISTRY
ED Entered STN: 29 Jul 2004
CN L-Ascorbic acid, 2-O-α-D-glucopyranosyl-, compd. with L-arginine
(1:1) (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C12 H18 O11 . C6 H14 N4 O2
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.



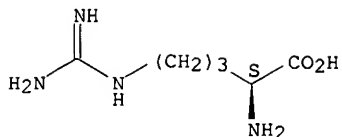
CM 2

CRN 74-79-3
CMF C6 H14 N4 O2

Absolute stereochemistry.

McIntosh

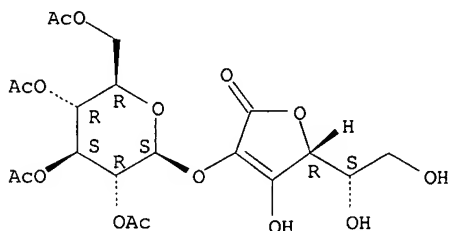
10/500,334



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 8 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 562043-83-8 REGISTRY
ED Entered STN: 07 Aug 2003
CN L-Ascorbic acid, 2-O-(2,3,4,6-tetra-O-acetyl-beta-D-glucopyranosyl)-
(9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C20 H26 O15
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

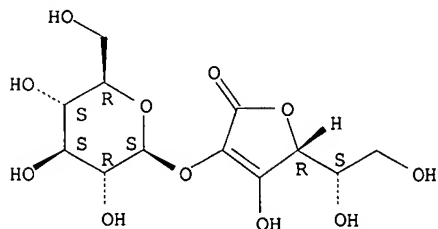


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 9 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 562043-82-7 REGISTRY
ED Entered STN: 07 Aug 2003
CN L-Ascorbic acid, 2-O-beta-D-glucopyranosyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C12 H18 O11
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

23 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
23 REFERENCES IN FILE CAPLUS (1907 TO DATE)

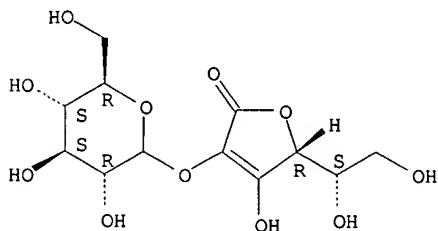
L7 ANSWER 10 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 215363-57-8 REGISTRY
ED Entered STN: 10 Dec 1998
CN L-Ascorbic acid, 2-O-D-glucopyranosyl- (9CI) (CA INDEX NAME)

McIntosh

10/500,334

FS STEREOSEARCH
DR 406485-28-7
MF C12 H18 O11
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

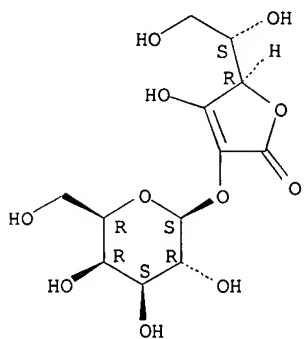


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 11 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 160009-30-3 REGISTRY
ED Entered STN: 06 Jan 1995
CN L-Ascorbic acid, 2-O-beta-D-galactopyranosyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN O-beta-D-Galactopyranosyl-L-ascorbic acid
FS STEREOSEARCH
MF C12 H18 O11
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 12 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 158731-43-2 REGISTRY
ED Entered STN: 03 Nov 1994
CN L-Ascorbic acid, 2-O-alpha-D-glucopyranosyl-, mixt. with 5-methyl-2-(1-methylethyl)cyclohexanol and trans-5-methyl-2-(1-methylethyl)cyclohexanone (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Cyclohexanol, 5-methyl-2-(1-methylethyl)-, mixt. contg. (9CI)
CN Cyclohexanone, 5-methyl-2-(1-methylethyl)-, trans-, mixt. contg. (9CI)
FS STEREOSEARCH
MF C12 H18 O11 . C10 H20 O . C10 H18 O
CI MXS

McIntosh

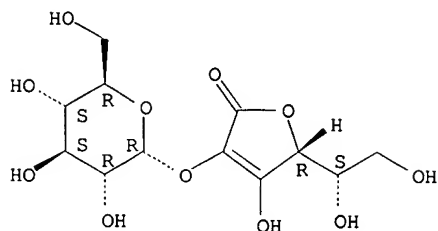
10/500,334

SR CA
LC STN Files: CA, CAPLUS

CM 1

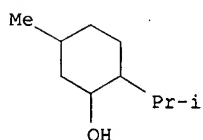
CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.



CM 2

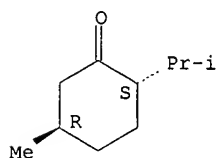
CRN 1490-04-6
CMF C10 H20 O



CM 3

CRN 89-80-5
CMF C10 H18 O

Relative stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 13 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 158731-42-1 REGISTRY
ED Entered STN: 03 Nov 1994
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with
2-methyl-5-(1-methylethenyl)-2-cyclohexen-1-one and 5-methyl-2-(1-
methylethyl)cyclohexanol (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, mixt. contg. (9CI)
CN Cyclohexanol, 5-methyl-2-(1-methylethyl)-, mixt. contg. (9CI)
FS STEREOSEARCH
MF C12 H18 O11 . C10 H20 O . C10 H14 O
CI MXS
SR CA
LC STN Files: CA, CAPLUS

CM 1

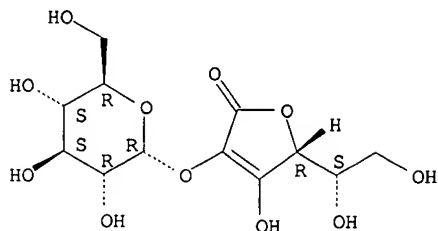
CRN 129499-78-1

McIntosh

10/500,334

CMF C12 H18 O11

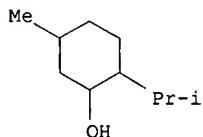
Absolute stereochemistry.



CM 2

CRN 1490-04-6

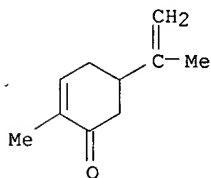
CMF C10 H20 O



CM 3

CRN 99-49-0

CMF C10 H14 O



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 14 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN

RN 158731-41-0 REGISTRY

ED Entered STN: 03 Nov 1994

CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with
trans-5-methyl-2-(1-methylethyl)cyclohexanone (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cyclohexanone, 5-methyl-2-(1-methylethyl)-, trans-, mixt. contg. (9CI)

FS STEREOSEARCH

MF C12 H18 O11 . C10 H18 O

CI MXS

SR CA

LC STN Files: CA, CAPLUS

CM 1

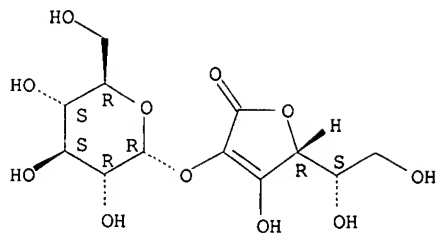
CRN 129499-78-1

CMF C12 H18 O11

Absolute stereochemistry.

McIntosh

10/500,334

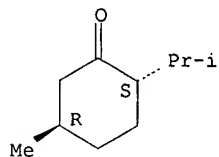


CM 2

CRN 89-80-5

CMF C10 H18 O

Relative stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 15 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN

RN 158731-40-9 REGISTRY

ED Entered STN: 03 Nov 1994

CN L-Ascorbic acid, 2-O-α-D-glucopyranosyl-, mixt. with
2-methyl-5-(1-methylethenyl)-2-cyclohexen-1-one (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, mixt. contg. (9CI)

FS STEREOSEARCH

MF C12 H18 O11 . C10 H14 O

CI MXS

SR CA

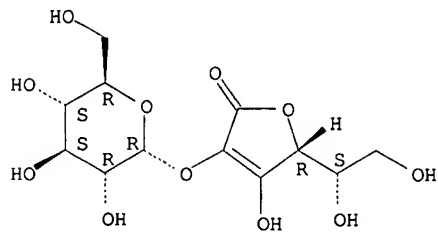
LC STN Files: CA, CAPLUS

CM 1

CRN 129499-78-1

CMF C12 H18 O11

Absolute stereochemistry.



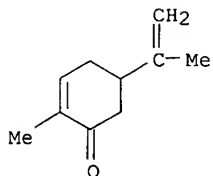
CM 2

CRN 99-49-0

CMF C10 H14 O

McIntosh

10/500,334



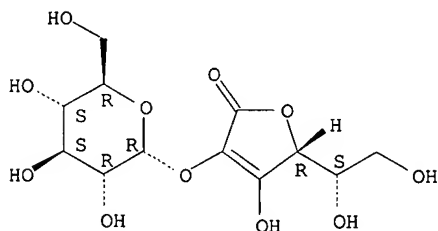
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 16 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 158731-39-6 REGISTRY
ED Entered STN: 03 Nov 1994
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with
5-methyl-2-(1-methylethyl)cyclohexanol (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Cyclohexanol, 5-methyl-2-(1-methylethyl)-, mixt. contg. (9CI)
FS STEREOSEARCH
MF C12 H18 O11 . C10 H20 O
CI MXS
SR CA
LC STN Files: CA, CAPLUS

CM 1

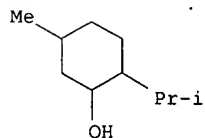
CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.



CM 2

CRN 1490-04-6
CMF C10 H20 O



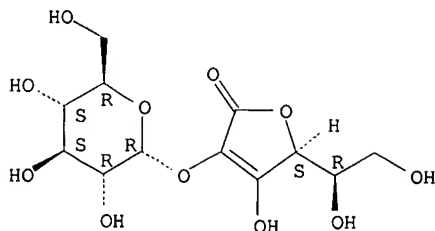
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 17 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 156970-00-2 REGISTRY
ED Entered STN: 12 Aug 1994
CN D-Ascorbic acid, 2-O- α -D-glucopyranosyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C12 H18 O11
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

McIntosh

10/500,334



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

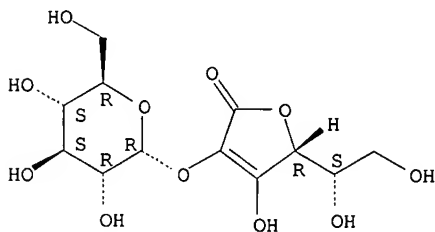
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 18 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 155071-92-4 REGISTRY
ED Entered STN: 13 May 1994
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with
4,9-dihydro-4-(1-methyl-4-piperidinyldiene)-10H-benzo[4,5]cyclohepta[1,2-
b]thiophen-10-one (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 10H-Benzo[4,5]cyclohepta[1,2-b]thiophen-10-one, 4,9-dihydro-4-(1-methyl-4-
piperidinyldiene)-, (2E)-2-butenedioate (1:1), mixt. contg. (9CI)
CN 10H-Benzo[4,5]cyclohepta[1,2-b]thiophen-10-one, 4,9-dihydro-4-(1-methyl-4-
piperidinyldiene)-, (E)-2-butenedioate (1:1), mixt. contg.
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with
4,9-dihydro-4-(1-methyl-4-piperidinyldiene)-10H-benzo[4,5]cyclohepta[1,2-
b]thiophen-10-one (E)-2-butenedioate (1:1)
FS STEREOSEARCH
MF C19 H19 N O S . C12 H18 O11 . C4 H4 O4
CI MXS
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.



CM 2

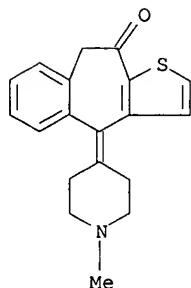
CRN 34580-14-8
CMF C19 H19 N O S . C4 H4 O4

CM 3

CRN 34580-13-7
CMF C19 H19 N O S

McIntosh

10/500,334

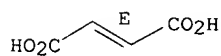


CM 4

CRN 110-17-8

CMF C4 H4 O4

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 19 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN

RN 154670-28-7 REGISTRY

ED Entered STN: 29 Apr 1994

CN L-Ascorbic acid, 2-O-~~alpha~~-D-glucopyranosyl-, mixt. with
3-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-ylidene)-N,N-dimethyl-1-
propanamine hydrochloride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propanamine, 3-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-ylidene)-N,N-
dimethyl-, hydrochloride, mixt. contg. (9CI)

FS STEREOSEARCH

MF C20 H23 N . C12 H18 O11 . C1 H

CI MXS

SR CA

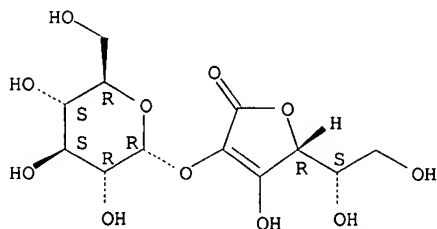
LC STN Files: CA, CAPLUS

CM 1

CRN 129499-78-1

CMF C12 H18 O11

Absolute stereochemistry.



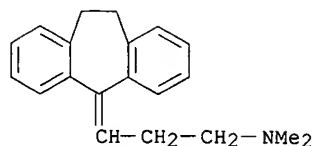
CM 2

CRN 549-18-8 (50-48-6)

CMF C20 H23 N . C1 H

McIntosh

10/500,334



● HCl

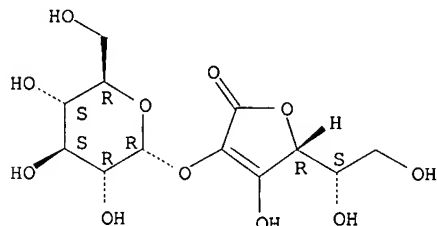
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 20 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 154670-24-3 REGISTRY
ED Entered STN: 29 Apr 1994
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with
10,11-dihydro-N,N-dimethyl-5H-dibenz[b,f]azepine-5-propanamine
monohydrochloride (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5H-Dibenz[b,f]azepine-5-propanamine, 10,11-dihydro-N,N-dimethyl-,
monohydrochloride, mixt. contg. (9CI)
FS STEREOSEARCH
MF C19 H24 N2 . C12 H18 O11 . C1 H
CI MXS
SR CA
LC STN Files: CA, CAPLUS

CM 1

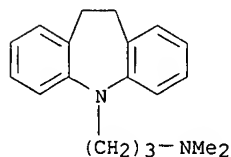
CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.



CM 2

CRN 113-52-0 (50-49-7)
CMF C19 H24 N2 . C1 H



● HCl

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 21 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 154389-96-5 REGISTRY

McIntosh

10/500,334

ED Entered STN: 15 Apr 1994

CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with
2-[(α -D-glucopyranosyloxy)methyl]-5-hydroxy-4H-pyran-4-one and
[2R-[2 α ,6 α (S*)]]-2-[6-(2-hydroxy-2-phenylethyl)-1-methyl-2-
piperidinyl]-1-phenylethanone hydrochloride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 4H-Pyran-4-one, 2-[(α -D-glucopyranosyloxy)methyl]-5-hydroxy-, mixt.
contg. (9CI)

CN Ethanone, 2-[6-(2-hydroxy-2-phenylethyl)-1-methyl-2-piperidinyl]-1-phenyl-
, hydrochloride, [2R-[2 α ,6 α (S*)]]-, mixt. contg. (9CI)

FS STEREOSEARCH

MF C22 H27 N O2 . C12 H18 O11 . C12 H16 O9 . C1 H

CI MXS

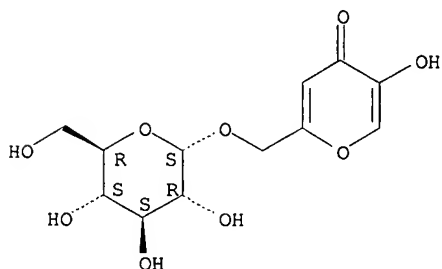
SR CA

CM 1

CRN 142057-67-8

CMF C12 H16 O9

Absolute stereochemistry.

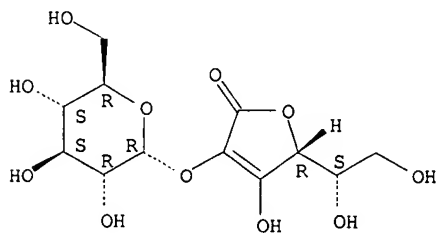


CM 2

CRN 129499-78-1

CMF C12 H18 O11

Absolute stereochemistry.

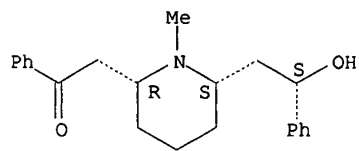


CM 3

CRN 134-63-4 (90-69-7)

CMF C22 H27 N O2 . C1 H

Absolute stereochemistry.



● HCl

McIntosh

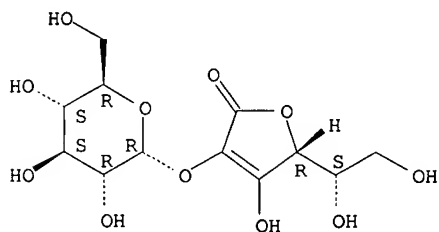
10/500,334

L7 ANSWER 22 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 154389-95-4 REGISTRY
ED Entered STN: 15 Apr 1994
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with
cis-2,2'-(1-methyl-2,6-piperidinediyl)bis[1-phenylethanone] (9CI) (CA
INDEX NAME)
OTHER CA INDEX NAMES:
CN Ethanone, 2,2'-(1-methyl-2,6-piperidinediyl)bis[1-phenyl-, cis-, mixt.
contg. (9CI)
FS STEREOSEARCH
MF C22 H25 N O2 . C12 H18 O11
CI MXS
SR CA

CM 1

CRN 129499-78-1
CMF C12 H18 O11

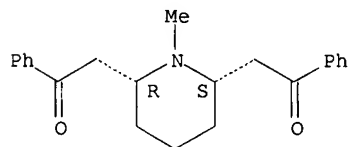
Absolute stereochemistry.



CM 2

CRN 579-21-5
CMF C22 H25 N O2

Relative stereochemistry.



L7 ANSWER 23 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 154389-89-6 REGISTRY
ED Entered STN: 15 Apr 1994
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with
[2R-[2 α ,6 α (S*)]]-2-[6-(2-hydroxy-2-phenylethyl)-1-methyl-2-
piperidinyl]-1-phenylethanone hydrochloride (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ethanone, 2-[6-(2-hydroxy-2-phenylethyl)-1-methyl-2-piperidinyl]-1-phenyl-
, hydrochloride, [2R-[2 α ,6 α (S*)]]-, mixt. contg. (9CI)
FS STEREOSEARCH
MF C22 H27 N O2 . C12 H18 O11 . C1 H
CI MXS
SR CA

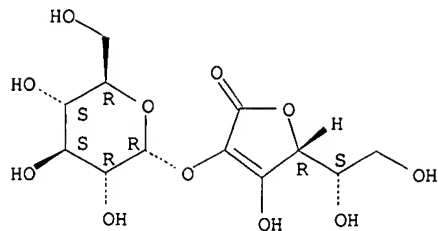
CM 1

CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.

McIntosh

10/500,334

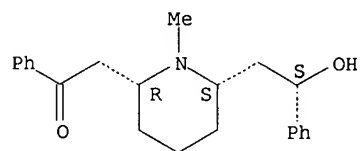


CM 2

CRN 134-63-4 (90-69-7)

CMF C22 H27 N O2 . Cl H

Absolute stereochemistry.



● HCl

L7 ANSWER 24 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN

RN 154389-86-3 REGISTRY

ED Entered STN: 15 Apr 1994

CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with
[2R-[2 α ,6 α (S*)]]-2-[6-(2-hydroxy-2-phenylethyl)-1-methyl-2-
piperidinyl]-1-phenylethanone (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethanone, 2-[6-(2-hydroxy-2-phenylethyl)-1-methyl-2-piperidinyl]-1-phenyl-
, [2R-[2 α ,6 α (S*)]]-, mixt. contg. (9CI)

FS STEREOSEARCH

MF C22 H27 N O2 . C12 H18 O11

CI MXS

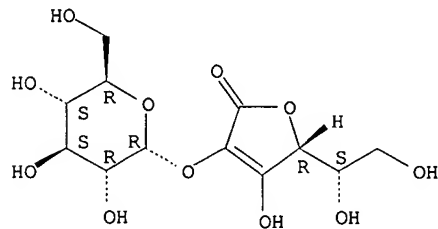
SR CA

CM 1

CRN 129499-78-1

CMF C12 H18 O11

Absolute stereochemistry.



CM 2

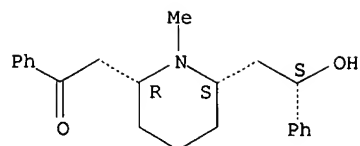
CRN 90-69-7

CMF C22 H27 N O2

Absolute stereochemistry.

McIntosh

10/500,334

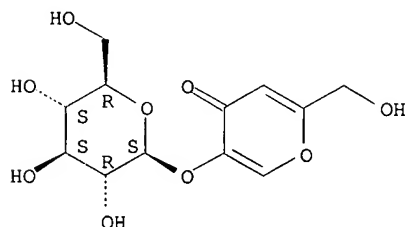


L7 ANSWER 25 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 154291-56-2 REGISTRY
ED Entered STN: 12 Apr 1994
CN L-Histidine, N-(N-glycylglycyl)-, mixt. with 2-O- α -D-glucopyranosyl-L-ascorbic acid, 5-(β -D-glucopyranosyloxy)-2-(hydroxymethyl)-4H-pyran-4-one and 4-hydroxyphenyl β -D-glucopyranoside (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN β -D-Glucopyranoside, 4-hydroxyphenyl, mixt. contg. (9CI)
CN 4H-Pyran-4-one, 5-(β -D-glucopyranosyloxy)-2-(hydroxymethyl)-, mixt. contg. (9CI)
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. contg. (9CI)
FS STEREOSEARCH
MF C12 H18 O11 . C12 H16 O9 . C12 H16 O7 . C10 H15 N5 O4
CI MXS
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 148981-10-6
CMF C12 H16 O9

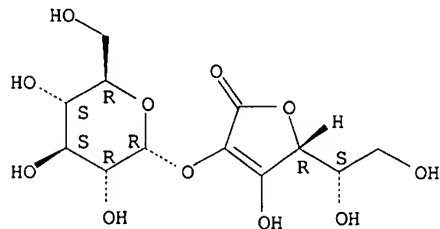
Absolute stereochemistry.



CM 2

CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.



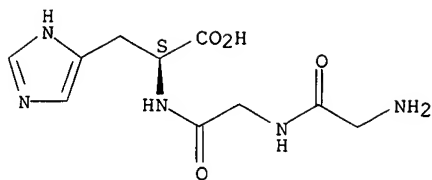
CM 3

CRN 7451-76-5
CMF C10 H15 N5 O4

Absolute stereochemistry.

McIntosh

10/500,334

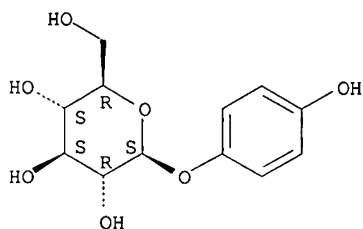


CM 4

CRN 497-76-7

CMF C12 H16 O7

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 26 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN

RN 154291-52-8 REGISTRY

ED Entered STN: 12 Apr 1994

CN L-Histidine, N-(N-glycylglycyl)-, mixt. with 2-O- α -D-glucopyranosyl-L-ascorbic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. contg. (9CI)

FS STEREOSEARCH

MF C12 H18 O11 . C10 H15 N5 O4

CI MXS

SR CA

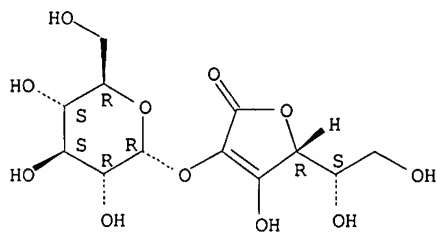
LC STN Files: CA, CAPLUS

CM 1

CRN 129499-78-1

CMF C12 H18 O11

Absolute stereochemistry.



CM 2

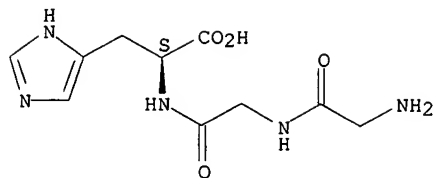
CRN 7451-76-5

CMF C10 H15 N5 O4

Absolute stereochemistry.

McIntosh

10/500,334



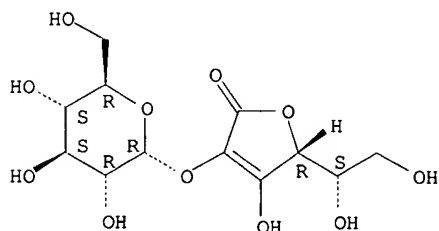
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 27 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 154291-49-3 REGISTRY
ED Entered STN: 12 Apr 1994
CN L-Histidine, N-beta-alanyl-3-methyl-, mononitrate, mixt. with
2-O-alpha-D-glucopyranosyl-L-ascorbic acid (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN L-Ascorbic acid, 2-O-alpha-D-glucopyranosyl-, mixt. contg. (9CI)
FS STEREOSEARCH
MF C12 H18 O11 . C10 H16 N4 O3 . H N O3
CI MXS
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.

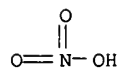


CM 2

CRN 5937-77-9
CMF C10 H16 N4 O3 . H N O3

CM 3

CRN 7697-37-2
CMF H N O3



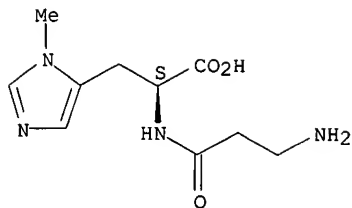
CM 4

CRN 584-85-0
CMF C10 H16 N4 O3

Absolute stereochemistry.

McIntosh

10/500,334



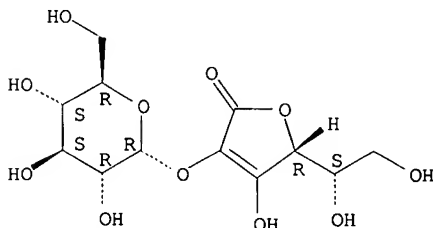
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 28 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 154291-46-0 REGISTRY
ED Entered STN: 12 Apr 1994
CN L-Histidine, N- β -alanyl-3-methyl-, mixt. with 2-O- α -D-glucopyranosyl-L-ascorbic acid (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. contg. (9CI)
FS STEREOSEARCH
MF C12 H18 O11 . C10 H16 N4 O3
CI MXS
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 129499-78-1
CMF C12 H18 O11

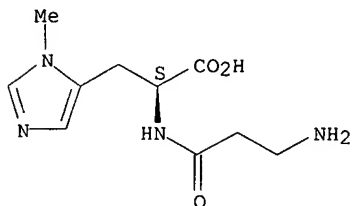
Absolute stereochemistry.



CM 2

CRN 584-85-0
CMF C10 H16 N4 O3

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

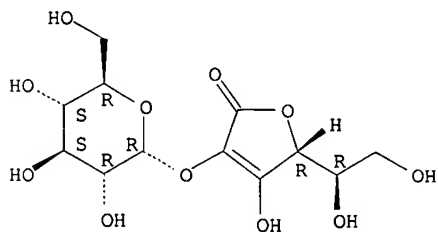
L7 ANSWER 29 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 154160-11-9 REGISTRY
ED Entered STN: 06 Apr 1994
CN D-erythro-Hex-2-enonic acid, 2-O- α -D-glucopyranosyl-, γ -lactone (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C12 H18 O11

McIntosh

10/500,334

SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

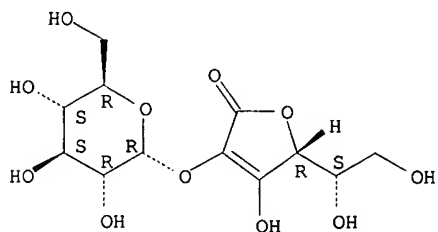
4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 30 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 153507-27-8 REGISTRY
ED Entered STN: 08 Mar 1994
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with sodium
3,8-dimethyl-5-(1-methylethyl)-1-azulenesulfonate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Azulen sulfonic acid, 3,8-dimethyl-5-(1-methylethyl)-, sodium salt,
mixt. contg. (9CI)
FS STEREOSEARCH
MF C15 H18 O3 S . C12 H18 O11 . Na
CI MXS
SR CA
LC STN Files: CA, CAPLUS

CM 1

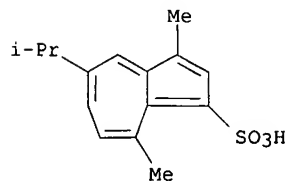
CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.



CM 2

CRN 6223-35-4 (16915-32-5)
CMF C15 H18 O3 S . Na



● Na

McIntosh

10/500,334

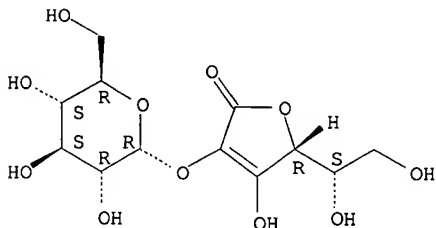
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 31 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 153507-26-7 REGISTRY
ED Entered STN: 08 Mar 1994
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with azulene (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Azulene, mixt. contg. (9CI)
FS STEREOSEARCH
MF C12 H18 O11 . C10 H8
CI MXS
SR CA
LC STN Files: CA, CAPLUS

CM 1

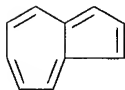
CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.



CM 2

CRN 275-51-4
CMF C10 H8



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

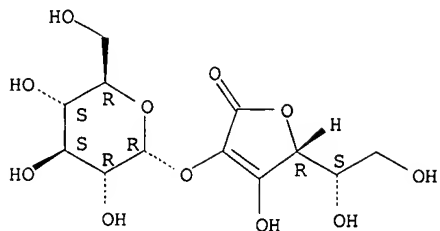
L7 ANSWER 32 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 153507-25-6 REGISTRY
ED Entered STN: 08 Mar 1994
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with
1,4-dimethyl-7-(1-methylethyl)azulene (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Azulene, 1,4-dimethyl-7-(1-methylethyl)-, mixt. contg. (9CI)
FS STEREOSEARCH
MF C15 H18 . C12 H18 O11
CI MXS
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 129499-78-1
CMF C12 H18 O11

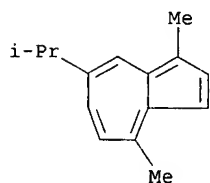
Absolute stereochemistry.

10/500,334



CM 2

CRN 489-84-9
CMF C15 H18



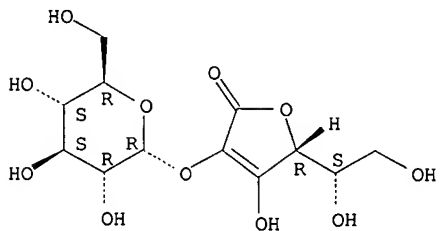
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 33 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 145607-71-2 REGISTRY
ED Entered STN: 29 Jan 1993
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with
(17 α)-19-norpregna-1,3,5(10)-trien-20-yne-3,17-diol (9CI) (CA INDEX
NAME)
OTHER CA INDEX NAMES:
CN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17 α)-, mixt. contg.
(9CI)
FS STEREOSEARCH
MF C20 H24 O2 . C12 H18 O11
CI MXS
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.



CM 2

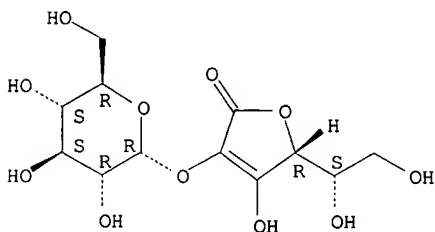
CRN 57-63-6
CMF C20 H24 O2

Absolute stereochemistry.

McIntosh

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L7 ANSWER 34 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 145607-70-1 REGISTRY
ED Entered STN: 29 Jan 1993
CN L-Ascorbic acid, 2-O- $\alpha$ -D-glucopyranosyl-, mixt. with sorbitan
monooctadecanoate, poly(oxy-1,2-ethanediyl) derivs. (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Sorbitan, monooctadecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt.
contg. (9CI)
FS STEREOSEARCH
MF C12 H18 O11 . Unspecified
CI MXS
SR CA
LC STN Files: CA, CAPLUS
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Absolute stereochemistry.

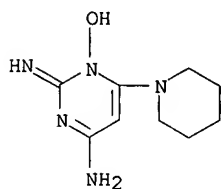


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L7 ANSWER 35 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 145607-69-8 REGISTRY
ED Entered STN: 29 Jan 1993
CN L-Ascorbic acid, 2-O- $\alpha$ -D-glucopyranosyl-, mixt. with
1,2-dihydro-1-hydroxy-2-imino-6-(1-piperidinyl)-4-pyrimidinamine (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 4-Pyrimidinamine, 1,2-dihydro-1-hydroxy-2-imino-6-(1-piperidinyl)-, mixt.
contg. (9CI)
FS STEREOSEARCH
MF C12 H18 O11 . C9 H15 N5 O
CI MXS
SR CA
LC STN Files: CA, CAPLUS
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McIntosh

10/500,334

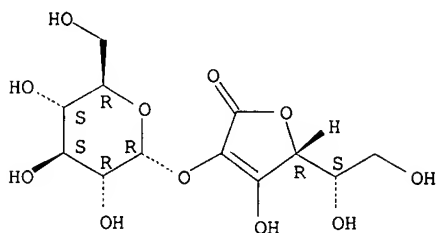
CRN 145607-68-7
CMF C9 H15 N5 O



CM 2

CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.



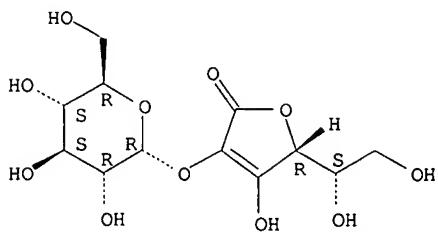
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 36 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 145607-67-6 REGISTRY
ED Entered STN: 29 Jan 1993
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with
3-methoxy-N,N,N-trimethyl-3-oxo-1-propanaminium chloride (9CI) (CA INDEX
NAME)
OTHER CA INDEX NAMES:
CN 1-Propanaminium, 3-methoxy-N,N,N-trimethyl-3-oxo-, chloride, mixt. contg.
(9CI)
FS STEREOSEARCH
MF C12 H18 O11 . C7 H16 N O2 . Cl
CI MXS
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.

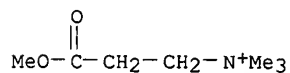


CM 2

McIntosh

10/500,334

CRN 16332-33-5 (16271-53-7)
CMF C7 H16 N O2 . Cl



● Cl⁻

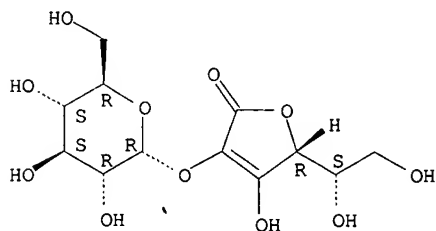
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 37 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 145607-66-5 REGISTRY
ED Entered STN: 29 Jan 1993
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl-, mixt. with
7-chloro-3-methyl-2H-1,2,4-benzothiadiazine 1,1-dioxide (9CI) (CA INDEX
NAME)
OTHER CA INDEX NAMES:
CN 2H-1,2,4-Benzothiadiazine, 7-chloro-3-methyl-, 1,1-dioxide, mixt. contg.
(9CI)
FS STEREOSEARCH
MF C12 H18 O11 . C8 H7 Cl N2 O2 S
CI MXS
SR CA
LC STN Files: CA, CAPLUS

CM 1

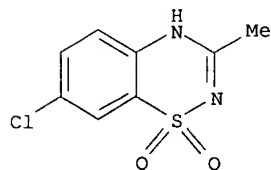
CRN 129499-78-1
CMF C12 H18 O11

Absolute stereochemistry.



CM 2

CRN 364-98-7
CMF C8 H7 Cl N2 O2 S



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 38 OF 38 REGISTRY COPYRIGHT 2007 ACS on STN
RN 129499-78-1 REGISTRY
ED Entered STN: 21 Sep 1990
CN L-Ascorbic acid, 2-O- α -D-glucopyranosyl- (9CI) (CA INDEX NAME)

McIntosh

10/500,334

OTHER NAMES:

CN 2-O- ~~α~~ -D-Glucopyranosyl-L-ascorbic acid

CN 2-O- ~~α~~ -D-Glucosyl-L-ascorbic acid

CN AA 2G

CN ~~Ascofresh~~

CN Ascorbyl glucoside

CN L-Ascorbic acid 2-glucoside

CN L-Ascorbic acid glucoside

FS STEREOSEARCH

DR 768394-81-6, 577772-83-9, 152452-81-8, 149614-94-8, 189746-43-8,
286844-98-2, 334667-58-2, 340136-52-9, 446287-26-9

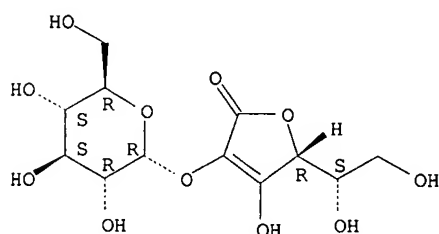
MF C12 H18 O11

CI COM

SR CA

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST,
MEDLINE, PROUSDDR, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

382 REFERENCES IN FILE CA (1907 TO DATE)

7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

385 REFERENCES IN FILE CAPLUS (1907 TO DATE)